CLAIMS

- information multicast broadcasting method multicast extended from а local information broadcast on an originating site to a roaming 5 terminal user belonging to this originating site, to at least one separate site hosting this roaming terminal and linked to this originating site by the IP network, the local multicast information information broadcast being generated by an 1.0 located at first broadcasting source а multicast information broadcasting address in this originating site, characterized in that the latter consists, after interconnecting said 15 terminal to the IP network on this separate site, in:
 - a) transmitting, from the roaming terminal to the extended multicast originating site, an information broadcast request message, request message containing at least said first information broadcasting multicast address and an identification code of said following terminal; and, the roaming identification of said roaming terminal by said originating site,

20

25

- b) transmitting, from the originating site to said roaming terminal, a message offering access to a global multicast information broadcast, said message offering access including at least one second global multicast information broadcasting address, the broadcasting source of which is identified in the originating site; and, following the receipt of said message offering access by said roaming terminal,
- c) transmitting from the roaming terminal to the originating site, via the IP network, a message accepting the offer of access to the information being broadcast at said second global multicast information broadcasting

address; and, after receipt of the message accepting the offer of access on said originating site,

- d) transferring the information to be broadcast from the first to the second broadcasting address; and
- e) transmitting, by global multicast broadcast, the information to be broadcast under the second address, which enables said roaming terminal interconnected to the separate site to receive, on the separate site, the information being broadcast under the first local broadcasting address, broadcast under the second global broadcasting address.

15

10

- The method as claimed in claim 1, characterized in that the steps a), b) and c) for transmission between the roaming terminal and the originating site, of the extended multicast broadcast request
 message, of the message offering access to a global multicast broadcast, or of the message accepting the offer of access are executed in point-to-point mode.
- 25 claimed in claim 1 2. 3. The method as characterized in that the step e) for global multicast transmission is performed in pointmultipoint mode.
- 30 4. The method as claimed in one of claims 1 to 3, characterized in that, for an originating site including a broadcast server connected to the IP network via a router, the step consisting in transferring the information to be broadcast from the first to the second broadcasting address includes:
 - a step for local multicast broadcasting of the information to be broadcast from the broadcast server to said router;

- a step for redirecting the information to be broadcast by substituting the second global multicast broadcasting address for the first local broadcasting address.

5

10

15

20

25

- The method as claimed in one of claims 1 to 4, 5. characterized in that, for a plurality of extended multicast broadcast request messages relating to the same first local multicast one and broadcasting address emanating from a plurality of roaming terminals belonging to said originating site and each interconnected to the IP network on separate site, said step e), consisting transmitting, by global multicast broadcast, the information to be broadcast under the address consists in creating a global multicast broadcast tree, the root element of which consists of one of the routers common to the broadcast branches making up this global multicast broadcast tree.
- 6. The method as claimed in one of claims 1 to 5, characterized in that, said second address being maintained and validated for a local multicast information broadcast to said first address, said step d) consisting in transferring the information to be broadcast from the first to the second broadcasting address is deleted for any extended multicast broadcast request message to this second address following the first extended multicast broadcast request message to said second address.
- 7. A multicast information broadcasting system extended, from a local multicast broadcast on an originating site to a roaming workstation user belonging to this originating site, to at least one separate site hosting this roaming terminal and linked to this originating site by the IP network, the local multicast information broadcast

10

25

30

being generated by an information broadcasting source located at a first local multicast broadcasting address in this originating site, characterized in that said system includes at least, at said originating site:

- a means of receiving an extended multicast information broadcast request message, sent by said roaming terminal from said separate site, said request message containing at least said first local multicast information broadcasting address and an identification code of said roaming terminal, said reception means being used for the identification of said roaming terminal by the originating site;
- a means of transmitting, from the originating 15 site to the roaming terminal, a message offering global multicast information access to a message offering broadcast, said including at least one second global multicast 20 information broadcasting address, broadcasting source of which is identified in the originating site;
 - a means of receiving a message accepting the offer of access to the information being broadcast at said second global multicast information broadcasting address, sent by said roaming terminal;
 - a means of transferring the information to be broadcast from the first to the second broadcasting address;
 - a means of transmission, by global multicast information broadcast, of the information to be broadcast under the second address.
- 35 8. The system as claimed in claim 7, characterized in that said means of receiving an extended multicast broadcast request message, of transmitting, from the originating site to the roaming terminal, a message offering access to a global multicast

broadcast, of receiving a message accepting the offer of access to the information being broadcast second global multicast broadcasting address, of transferring the information broadcast from the first to the broadcasting address, of transmitting, by global multicast broadcast, the information broadcast under the second address, are formed by software modules.

10

5

9. The system as claimed in claim 8, characterized in that said software modules are located on a dedicated machine interconnected by IP local area network on the originating site.

15

10. The system as claimed in claim 8, characterized in that, said originating site including a broadcast server connected to the IP network via a router, said software modules are located in said router.

- 11. roaming terminal equipped to implement multicast information broadcasting method extended, from а local multicast information broadcast on an originating site, to which this 25 roaming terminal belongs, to at least one separate site hosting this roaming terminal and linked to this originating site by the IP network, the local multicast information broadcast being generated by information broadcasting source located at a 30 local multicast information broadcasting address in this originating site, characterized in that said roaming terminal includes at stored in the mass memory of the latter:
- a software module for creating and transmitting
 an extended multicast information broadcast
 request message, this request message containing
 at least one first local multicast information
 broadcasting address and an identification code
 of this roaming terminal;

10

30

- a software module for receiving and reading a message offering access to a global multicast information broadcast, this message offering access including at least one second global multicast information broadcasting address, the broadcasting source of which is identified in the originating site;

- a software module for creating and transmitting to the originating site, via the IP network, a message accepting the offer of access to the information being broadcast at said second global multicast information broadcasting address.
- A software product for the implementation, by a 15 roaming terminal type computer, of the multicast information broadcasting method extended, from a local multicast broadcast on an originating site, to at least one separate site hosting this roaming terminal and linked to this originating site by 20 the IP network, the local multicast information broadcast being generated by information an broadcasting source located at a first multicast information broadcasting address in 25 originating site, as claimed in one of claims 1 to 6, characterized in that it includes, for invoking on said roaming terminal:
 - a software module for creating and transmitting an extended IP multicast information broadcast request message, this request message containing at least a first local multicast information broadcasting address and an identification code of this roaming terminal;
- a software module for receiving and reading a message offering access to a global multicast information broadcast, this message offering access including at least one second global multicast information broadcasting address, the

25

30

broadcasting source of which is identified in the originating site;

- a software module for creating and transmitting to the originating site, via the IP network, a message accepting the offer of access to the information being broadcast at said second global multicast information broadcasting address.
- A software product for the implementation, by a 10 13. computer, of the multicast information from local method extended, broadcasting multicast broadcast on an originating site, to at one separate site hosting this roaming terminal and linked to this originating site by 15 the IP network, from an information broadcasting located first local multicast source at а broadcasting address in information originating site, as claimed in one of claims 1 to 6, characterized in that it includes, for invoking 20 on said originating site:
 - a software module for receiving an extended IP multicast information broadcast request message sent by the roaming terminal from the separate site, this request message including at least information first local multicast broadcasting address and an identification code said roaming terminal, said receiving of for software module being used the identification on the separate site of roaming terminal by the originating site;
- a software module for transmitting from the originating site, to the roaming terminal, a message offering access to a global multicast information broadcast, said message offering access including at least one second global multicast information broadcasting address, the broadcasting source of which is identified in the originating site;

- a software module for receiving a message accepting the offer of access to the information being broadcast at said second global multicast information broadcasting address, sent by said roaming terminal;
- a software module for transferring the information to be broadcast from the first to the second broadcasting address;
- a software module for transmitting by global multicast information broadcast, the information to be broadcast under said second address.

14. The software product as claimed in claim 13, characterized in that, for an originating site including a router, said software modules are stored in a mass memory of said router.